



Re: imidacloprid metabolites and products
 nathan.ehresman
 to:
 Theresa Cole
 08/22/2012 12:04 PM
 Hide Details
 From: nathan.ehresman@us.nufarm.com
 To: Theresa Cole/DC/USEPA/US@EPA,

1 Attachment



Requested standards for EPA repository, 8-22-12.xlsx

Theresa-

Have a look at the attached list. You mention that the metabolites are commercially available. Our lab was not able to locate 6 from the list you sent me. Can someone in your agency provide us with source/catalogue #s?

Nathan P. Ehresman
 Director, Regulatory Affairs
 Nufarm Americas Inc.
 4020 Aerial Center Parkway, Suite 101
 Morrisville, NC 27560
 Phone: 919.379.2515
 Mobile: 919.930.4198
 nathan.ehresman@us.nufarm.com

From: Theresa Cole <Cole.Theresa@epamail.epa.gov>
 To: nathan.ehresman@us.nufarm.com,
 Date: 08/20/2012 10:35 AM
 Subject: Re: imidacloprid metabolites and products

Hello Nathan,

I appreciate your commitment to send analytical standard of the parent compound, imidacloprid to the Repository. However, NuFarm does hold an active technical registration for imidacloprid (Reg. # 71368-61) and is obligated to send analytical standard for the metabolites as well as the parent compound. The metabolites are now commercially available. Your company can purchase them and have them shipped directly to the Repository. The Repository has obtained the imidacloprid parent and the metabolite standards from Bayer Crop Science in the past. Please let me know if you have any additional questions.

Kind regards,
 Terry

~~~~~  
 TERRY  
 (Theresa M. Cole)  
 US EPA National Pesticide Standard Repository  
 Environmental Science Center  
 701 Mapes Road  
 Fort Meade, MD 20755-5350  
 Cole.Theresa@epa.gov

(410) 305-2907

nathan.ehresman---08/17/2012 03:22:17 PM---Hi Theresa- We can likely provide some imidacloprid (parent) PAI standard but we

From: nathan.ehresman@us.nufarm.com  
To: Theresa Cole/DC/USEPA/US@EPA  
Date: 08/17/2012 03:22 PM  
Subject: Re: imidacloprid metabolites and products

---

Hi Theresa-

We can likely provide some imidacloprid (parent) PAI standard but we don't have any of the metabolites listed nor a source from which to obtain.

Curious why EPA cannot obtain these from the Basic Registrant- Bayer CropScience?

---

Nathan P. Ehresman  
Director, Regulatory Affairs  
Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560  
Phone: 919.379.2515  
Mobile: 919.930.4198  
nathan.ehresman@us.nufarm.com

From: Theresa Cole <Cole.Theresa@epamail.epa.gov>  
To: nathan.ehresman@us.nufarm.com,  
Date: 08/15/2012 11:51 AM  
Subject: imidacloprid metabolites and products

---

Hi Nathan,  
Attached is a request for imidacloprid metabolites and products. Please feel free to contact me if you have any questions.

Kind regards,  
Terry  
(See attached file: nufarms 8 15 2012.doc)

---

TERRY  
(Theresa M. Cole)  
Environmental Protection Specialist  
US EPA National Pesticide Standard Repository  
Environmental Protection Agency  
701 Mapes Road  
Fort Meade, MD 20755-5350  
(410) 305-2907

[attachment "nufarms 8 15 2012.doc" deleted by Nathan Ehresman/US/Nufarm]

\*\*\*\*\*



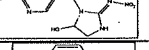

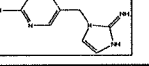
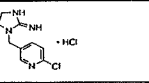
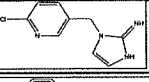
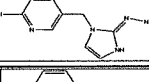
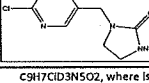
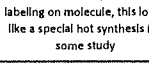
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Nufarm Americas Inc. and its affiliated companies.  
Fax: +1 630 455 2001.

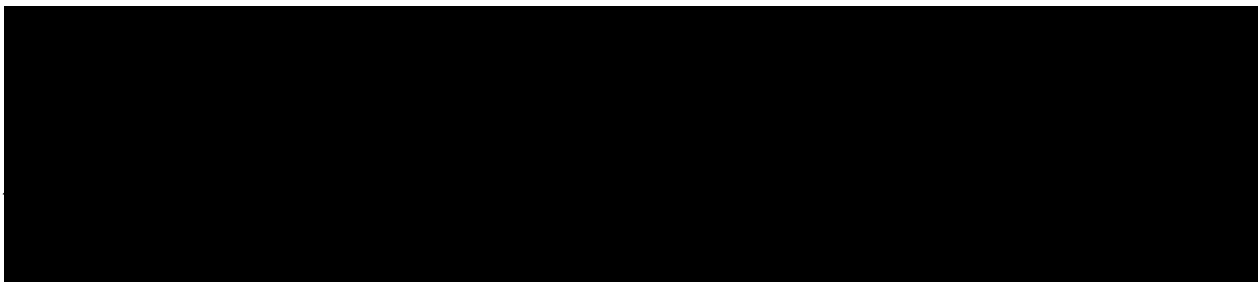
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THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE. If the reader of this message is not the intended recipient or an employee or agent responsible for delivering the message to this intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please delete, destroy, and do not save the message.

Nufarm Americas Inc. and its affiliated companies.  
Fax: +1 630 455 2001.

| Compound Requested                   | Source                | catalog #      | Purity | Price    | Quantity (g) | Requested Quantity | Total cost            | available                 | CAS #       | Structure                                                                           | CAS Name                                                              |
|--------------------------------------|-----------------------|----------------|--------|----------|--------------|--------------------|-----------------------|---------------------------|-------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| imidacloprid                         | Nufarm                | 2ADCK153-1     | 98.9   | \$0.00   | 5            | 5                  | \$0.00                | yes                       | 138261-41-3 |  | (Z)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine      |
|                                      | Aldrich, pestanal std | 37894          | ?      | \$54.30  | 0.1          | 5                  | <del>\$2,715.00</del> | yes                       | 138261-41-3 |  | (Z)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine      |
| imidacloprid 5 hydroxy               | Need source           | Need Catalog # |        |          |              | 2                  |                       | ?                         |             |  |                                                                       |
| imidacloprid 6 chloronicotinic acid  | Aldrich, Fluka        | 1563563-5G     | ≥97.0% | \$35.30  | 5            | 2                  | \$35.30               | yes                       | 5326-23-8   |  | 6-Chloropyridine-3-carboxylic acid,                                   |
| imidacloprid des nitro               | Need source           | Need Catalog # |        |          |              | 2                  |                       | ?                         |             |  |                                                                       |
| imidacloprid hydrochloride des nitro | Aldrich, pestanal std | 37052          | ?      | \$320.50 | 0.025        | 2                  | \$2,564.00            | back ordered till 9/18/12 | 127202-53-3 |  | 1-[(2-Chloro-pyridin-5-yl-methyl)-2-imino-imidazolidine hydrochloride |
| imidacloprid olefin des nitro        | Need source           | Need Catalog # |        |          |              | 2                  |                       | ?                         |             |  |                                                                       |
| imidacloprid olefin                  | Need source           | Need Catalog # |        |          |              | 2                  |                       | ?                         |             |  |                                                                       |
| imidacloprid ureo                    | Need source           | Need Catalog # |        |          |              | 2                  |                       | ?                         |             |  |                                                                       |
| imidacloprid 13C d3-                 | Need source           | Need Catalog # |        |          |              | 2                  |                       | ?                         |             |  |                                                                       |
| Total cost =                         |                       |                |        |          |              |                    | \$2,599.30            |                           |             |                                                                                     |                                                                       |

|                 |                          |                          |                          |                          |
|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|
| our CSF's basic | alternate 1 imidacloprid | alternate 2 imidacloprid | alternate 3 imidacloprid | alternate 4 imidacloprid |
|-----------------|--------------------------|--------------------------|--------------------------|--------------------------|





imidacloprid metabolites and products  
Theresa Cole to: nathan.ehresman

08/15/2012 11:51 AM

From: Theresa Cole/DC/USEPA/US  
To: nathan.ehresman@us.nufarm.com,

Hi Nathan,

Attached is a request for imidacloprid metabolites and products. Please feel free to contact me if you have any questions.

Kind regards,  
Terry



nufarms 8 15 2012.doc

---

TERRY

(Theresa M. Cole)

Environmental Protection Specialist

US EPA National Pesticide Standard Repository

Environmental Protection Agency

701 Mapes Road

Fort Meade, MD 20755-5350

(410) 305-2907



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDE PROGRAMS  
NATIONAL PESTICIDE STANDARD REPOSITORY  
ENVIRONMENTAL SCIENCE CENTER  
701 MAPES ROAD  
FORT MEADE, MARYLAND 20755-5350

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

October 27, 2010

Mr. Bill Malberg  
Research & Development Manager  
Nufarm Americas, Inc.  
104 T.W. Alexander Drive  
PO Box 13439  
RTP, NC 27709

*Nufarm UK ~~Inc.~~ Limited*

Dear Bill Malberg,

The U.S. Environmental Protection Agency needs your assistance to replenish its supply of pesticide analytical reference standards for the EPA National Pesticide Standard Repository. These standards are maintained in the repository for distribution to federal and state laboratories performing FIFRA enforcement, as required by 40 CFR part 158, and OPPTS Test Guidelines 830.1900 and 860.1650.

We currently need to replenish our stock with:

2,4-D, 5 grams  
abamectin, 5 grams  
amitrole, 5 grams  
dichlorprop, 2-EH Ester, 5 grams  
dicamba, 5 grams  
dithiopyr, 5 grams  
fluroxypyr, 5 grams  
glyphosate, 5 grams  
imazapyr, 5 grams  
iprodione, 5 grams  
metalaxyl, 5 grams ✓  
nicosulfuron, 5 grams

*A H Marks*

picloram, 5 grams  
prodiamine, 5 grams  
propiconazole, 5 grams  
quinclorac, 5 grams  
thidiazuron, 5 grams  
trinexapac-ethyl, 5 grams

Please send this material as soon as possible to:

Ms. Terry Cole  
EPA Environmental Science Center  
National Pesticide Standard Repository  
701 Mapes Road  
Fort Meade, MD 20755-5350

Please also include 1) a copy of the MSDS, 2) the declared percent purity, 3) a copy of the Certificate of Analysis and 4) the expiration date. If no expiration date is provided, we will assume a one year expiration date.

Your continued support of the EPA National Pesticide Standard Repository is greatly appreciated. If you have any questions, please contact me by telephone (410-305-2907) or email ([cole.theresa@epa.gov](mailto:cole.theresa@epa.gov)).

Sincerely,

Theresa M. Cole  
US Environmental Protection Agency  
National Pesticide Standard Repository  
Office of Pesticide Programs



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDE PROGRAMS  
NATIONAL PESTICIDE STANDARD REPOSITORY  
ENVIRONMENTAL SCIENCE CENTER  
701 MAPES ROAD  
FORT MEADE, MARYLAND 20755-5350

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

January 31, 2011

Mr. Bill Malberg  
Research & Development Manager  
Nufarm Americas, Inc.  
104 T.W. Alexander Drive  
PO Box 13439  
RTP, NC 27709

Dear Bill Malberg,

The U.S. Environmental Protection Agency needs your assistance to replenish its supply of pesticide analytical reference standards for the EPA National Pesticide Standard Repository. These standards are maintained in the repository for distribution to federal and state laboratories performing FIFRA enforcement, as required by 40 CFR part 158, and OPPTS Test Guidelines 830.1900 and 860.1650.

We currently need to replenish our stock with:

- metsulfuron, 5 grams
- imidacloprid, 5 grams
- imazamethabenz, 5 grams
- oxytetracycline dehydrate, 5 grams
- propiconazole, 5 grams

Please send this material as soon as possible to:

- Ms. Terry Cole
- EPA Environmental Science Center
- National Pesticide Standard Repository
- 701 Mapes Road
- Fort Meade, MD 20755-5350



Please also include 1) a copy of the MSDS, 2) the declared percent purity, 3) a copy of the Certificate of Analysis and 4) the expiration date. If no expiration date is provided, we will assume a one year expiration date.

Your continued support of the EPA National Pesticide Standard Repository is greatly appreciated. If you have any questions, please contact me by telephone (410-305-2907) or email ([cole.theresa@epa.gov](mailto:cole.theresa@epa.gov)).

Sincerely,

Theresa M. Cole  
US Environmental Protection Agency  
National Pesticide Standard Repository  
Office of Pesticide Programs



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDE PROGRAMS  
NATIONAL PESTICIDE STANDARD REPOSITORY  
ENVIRONMENTAL SCIENCE CENTER  
701 MAPES ROAD  
FORT MEADE, MARYLAND 20755-5350

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

June 21, 2011

Mr. Bill Malberg  
Research & Development Manager  
Nufarm Americas, Inc.  
104 T.W. Alexander Drive  
PO Box 13439  
RTP, NC 27709

Dear Bill Malberg,

The U.S. Environmental Protection Agency needs your assistance to replenish its supply of pesticide analytical reference standards for the EPA National Pesticide Standard Repository. These standards are maintained in the repository for distribution to federal and state laboratories performing FIFRA enforcement, as required by 40 CFR part 158, and OPPTS Test Guidelines 830.1900 and 860.1650.

We currently need to replenish our stock with:

~~amitrole, 5 grams~~ *not Nufarm*  
imazamethabenz, 5 grams  
imidacloprid, 5 grams  
metsulfuron, 5 grams  
oxytetracycline dehydrate, 5 grams  
propiconazole, 5 grams

ethephon analytical standard, 5 grams  
ethephon technical standard, 200 grams  
ethephon end use products

*See letter  
dated  
8/8/11*

*Trance*

Please send this material as soon as possible to:


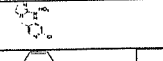
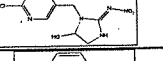
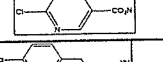
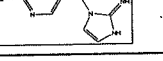
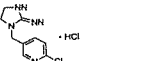
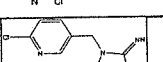
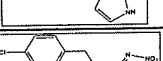

Ms. Terry Cole  
EPA Environmental Science Center  
National Pesticide Standard Repository  
701 Mapes Road  
Fort Meade, MD 20755-5350

Please also include 1) a copy of the MSDS, 2) the declared percent purity, 3) a copy of the Certificate of Analysis and 4) the expiration date. If no expiration date is provided, we will assume a one year expiration date.

Your continued support of the EPA National Pesticide Standard Repository is greatly appreciated. If you have any questions, please contact me by telephone (410-305-2907) or email ([cole.theresa@epa.gov](mailto:cole.theresa@epa.gov)).

Sincerely,

Theresa M. Cole  
US Environmental Protection Agency  
National Pesticide Standard Repository  
Office of Pesticide Programs

| Compound Requested                   | Source                | catalog #      | Purity | Price    | Quantity (g) | Requested Quantity | Total cost   | available                 | CAS #       | Structure                                                                                           | CAS Name                                                             |
|--------------------------------------|-----------------------|----------------|--------|----------|--------------|--------------------|--------------|---------------------------|-------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| imidacloprid                         | Nufarm                | 2ADCX153-1     | 98.9   | \$0.00   | 5            | 5                  | \$0.00       | yes                       | 138261-41-3 |                  | (2E)-1-((6-chloro-3-pyridinyl)methyl)-N-nitro-2-imidazolidinimine    |
|                                      | Aldrich, pestanal std | 37894          | ?      | \$54.30  | 0.1          | 5                  | \$2,715.00   | yes                       | 138261-41-3 |                  | (2E)-1-((6-chloro-3-pyridinyl)methyl)-N-nitro-2-imidazolidinimine    |
| imidacloprid 5 hydroxy               | Need source           | Need Catalog # |        |          |              | 2                  |              | ?                         |             |                  |                                                                      |
| imidacloprid 6 chloronicotinic acid  | Aldrich, Fluka        | 1563563-5G     | ≥97.0% | \$35.30  | 5            | 2                  | \$35.30      | yes                       | 5326-23-8   |                  | 6-Chloropyridine-3-carboxylic acid,                                  |
| imidacloprid des nitro               | Need source           | Need Catalog # |        |          |              | 2                  |              | ?                         |             |                  |                                                                      |
| imidacloprid hydrochloride des nitro | Aldrich, pestanal std | 37052          | ?      | \$320.50 | 0.025        | 2                  | \$2,564.00   | back ordered till 9/18/12 | 127202-53-3 |                  | 1-(2-Chloro-pyridin-5-yl-methyl)-2-imino-imidazolidine hydrochloride |
| imidacloprid olefin des nitro        | Need source           | Need Catalog # |        |          |              | 2                  |              | ?                         |             |                  |                                                                      |
| imidacloprid olefin                  | Need source           | Need Catalog # |        |          |              | 2                  |              | ?                         |             |                  |                                                                      |
| imidacloprid urea                    | Need source           | Need Catalog # |        |          |              | 2                  |              | ?                         |             |                  |                                                                      |
| imidacloprid 13C d3-                 | Need source           | Need Catalog # |        |          |              | 2                  |              | ?                         |             | C9H7CID3N5O2, where is labeling on molecule, this looks like a special hot synthesis for some study |                                                                      |
|                                      |                       |                |        |          |              |                    | Total cost = | \$2,599.30                |             |                                                                                                     |                                                                      |

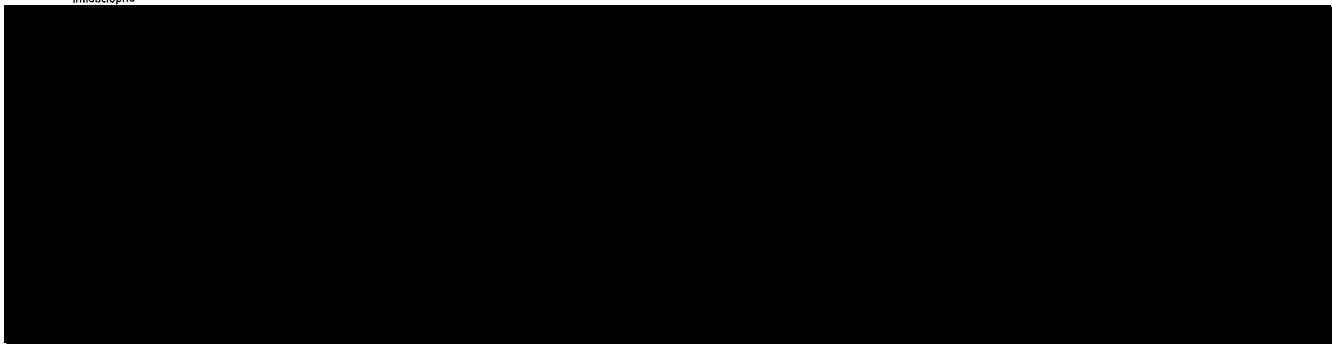
our CSF's  
basic  
Imidacloprid

alternate 1  
Imidacloprid

alternate 2  
Imidacloprid

alternate 3  
Imidacloprid

alternate 4  
Imidacloprid



**Cole, Theresa**

---

**From:** Tariq.Mahmood@uk.nufarm.com  
**Sent:** Friday, May 31, 2013 5:16 AM  
**To:** Cole, Theresa  
**Subject:** Reference Standards  
**Attachments:** Std1261.tif

Hi Terry,

Following your request for analytical standards please see below:

dichlorprop (2,4-DP) and mecoprop - we shipped 5g of each of these to you on 1 May 13. These were requested in your previous email dated 16 April 13.  
Have they arrived?

mecoprop, methyl ester, mecoprop-p methyl ester and MCPB methyl ester - We do not have these standards in date as we no longer use them. We will revalidate them later this year.

imidacloprid des nitro - This is not something we have ever used. I think you may have obtained this from another supplier.

2,4-DB methyl ester - New C of A attached dichlorprop-p (2,4-DP-p) and MCPA 2-ethylhexyl ester - We have new standards of these. I will send you 5g of each.

If you have any further questions please contact me.

Kind Regards

Tariq  
Tariq Mahmood | GLP Study Director | Nufarm UK Limited Wyke Lane, Wyke, Bradford, BD12 9EJ, UK | t: +44 (0)1274 691234 | Ext: 2304 | e: [tariq.mahmood@uk.nufarm.com](mailto:tariq.mahmood@uk.nufarm.com)

(See attached file: Std1261.tif)

"Cole, Theresa"  
<Cole.Theresa@epa.gov>

To  
"Tariq.Mahmood@uk.nufarm.com"  
30/05/2013 20:08 <[Tariq.Mahmood@uk.nufarm.com](mailto:Tariq.Mahmood@uk.nufarm.com)>  
cc

Subject

Please see the attached request. Feel free to contact me if you have any questions.

Kind regards,

Terry

~~~~~  
TERRY
(Theresa M. Cole)
US EPA National Pesticide Standard Repository Environmental Science Center
701 Mapes Road
Fort Meade, MD 20755-5350
Cole.Theresa@epa.gov
(410) 305-2907

[attachment "ahmarks 5 30 2013.doc" deleted by Tariq Mahmood/UK/Nufarm] This email and any attachments to it is confidential and is for the use only of the intended recipient. If you are not the intended recipient of the communication, please notify the sender immediately by return e-mail, delete the communication, do not read, copy, print, retransmit, store or act in reliance on the communication. Any views expressed in the communication are those of the individual sender only, unless expressly stated to be those of Nufarm. Nufarm does not guarantee the integrity of the communication, or that it is free from errors, viruses or interference.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDE PROGRAMS
NATIONAL PESTICIDE STANDARD REPOSITORY
ENVIRONMENTAL SCIENCE CENTER
701 MAPES ROAD
FORT MEADE, MARYLAND 20755-5350

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

May 30, 2013

Mr. Tariq Mahmood
NuFarms UK, limited
Wyke, Bradford,
West Yorkshire, BD12 9EJ
England

Dear Mr. Mahmood,

The U.S. Environmental Protection Agency needs your assistance to replenish its supply of pesticide analytical reference standards for the EPA National Pesticide Standard Repository. These standards are maintained in the repository for distribution to federal and state laboratories performing FIFRA enforcement, as required by 40 CFR part 158, and OPPTS Test Guidelines 830.1900 and 860.1650.

We currently need to replenish our stock with:

~~dichlorprop~~ (2,4-DP), 5 grams *5/7-13*

imidacloprid des nitro, 2 grams

~~mecoprop~~ (MCP), 5 grams *5-7-13*

mecoprop, methyl ester, 5 grams ✓ *no using*

~~mecoprop-p methyl ester~~, 5 grams ✓ *6/27/13*

We have remaining stock, but need to obtain a new Certificate of Analysis for:

renewed ~~2,4-DB methyl ester~~, lot # S1135-DC/532/26

renewed ~~dichlorprop-p (2,4-DP-p)~~, lot # S982-S1122

~~MCPA 2-ethylhexyl ester~~, lot # S1132

~~MCPB methyl ester~~, lot # S1134-DC/532/25 ✓ *will get later on the year*

Please FAX (410-305-2999) or email (Cole.Theresa@epa.gov) the new COAs to us at your earliest convenience. If these lots have not been re-certified, please send 5 grams of each parent and 3 grams of each metabolite standard. Please send this material as soon as possible to:

mecoprop methyl ester

Ms. Terry Cole
EPA Environmental Science Center
National Pesticide Standard Repository
701 Mapes Road
Fort Meade, MD 20755-5350

Please also include 1) a copy of the MSDS, 2) a copy of the Certificate of Analysis
3) the declared percent purity, and 4) the expiration date. If no expiration date is provided,
we will assume a one year expiration date.

Your continued support of the EPA National Pesticide Standard Repository is
greatly appreciated. If you have any questions, please contact me by telephone (410-305-
2907) or email (cole.theresa@epa.gov).

Sincerely,

Theresa M. Cole
US Environmental Protection Agency
National Pesticide Standard Repository
Office of Pesticide Programs



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDE PROGRAMS
NATIONAL PESTICIDE STANDARD REPOSITORY
ENVIRONMENTAL SCIENCE CENTER
701 MAPES ROAD
FORT MEADE, MARYLAND 20755-5350

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

October 1, 2012

Mr. Nathan P. Ehresman
Nufarm Americas, Inc.
4020 Aerial Center Parkway
Suite 101
Morrisville, NC 27560

Dear Mr. Ehresman,

The U.S. Environmental Protection Agency needs your assistance to replenish its supply of pesticide analytical reference standards for the EPA National Pesticide Standard Repository. These standards are maintained in the repository for distribution to federal and state laboratories performing FIFRA enforcement, as required by 40 CFR part 158, and OPPTS Test Guidelines 830.1900 and 860.1650.

We currently need to replenish our stock with:
metalaxyl, 5 grams

Please send this material as soon as possible to:

Ms. Terry Cole
EPA Environmental Science Center
National Pesticide Standard Repository
701 Mapes Road
Fort Meade, MD 20755-5350

Please also include 1) a copy of the MSDS, 2) a copy of the Certificate of Analysis 3) the declared percent purity, and 4) the expiration date. If no expiration date is provided, we will assume a one year expiration date.

Your continued support of the EPA National Pesticide Standard Repository is greatly appreciated. If you have any questions, please contact me by telephone (410-305-2907) or email (cole.theresa@epa.gov).

*Recd
10-10-12*

Sincerely,

Theresa M. Cole
US Environmental Protection Agency
National Pesticide Standard Repository
Office of Pesticide Programs



Re: imidacloprid metabolites and products
nathan.ehresman
to:
Theresa Cole
08/22/2012 12:04 PM
Hide Details
From: nathan.ehresman@us.nufarm.com
To: Theresa Cole/DC/USEPA/US@EPA,

1 Attachment



Requested standards for EPA repository, 8-22-12.xlsx

Theresa-

Have a look at the attached list. You mention that the metabolites are commercially available. Our lab was not able to locate 6 from the list you sent me. Can someone in your agency provide us with source/catalogue #s?

Nathan P. Ehresman
Director, Regulatory Affairs
Nufarm Americas Inc.
4020 Aerial Center Parkway, Suite 101
Morrisville, NC 27560
Phone: 919.379.2515
Mobile: 919.930.4198
nathan.ehresman@us.nufarm.com

From: Theresa Cole <Cole.Theresa@epamail.epa.gov>
To: nathan.ehresman@us.nufarm.com,
Date: 08/20/2012 10:35 AM
Subject: Re: imidacloprid metabolites and products

Hello Nathan,
I appreciate your commitment to send analytical standard of the parent compound, imidacloprid to the Repository. However, NuFarm does hold an active technical registration for imidacloprid (Reg. # 71368-61) and is obligated to send analytical standard for the metabolites as well as the parent compound. The metabolites are now commercially available. Your company can purchase them and have them shipped directly to the Repository. The Repository has obtained the imidacloprid parent and the metabolite standards from Bayer Crop Science in the past. Please let me know if you have any additional questions.

Kind regards,
Terry

~~~~~  
TERRY  
(Theresa M. Cole)  
US EPA National Pesticide Standard Repository  
Environmental Science Center  
701 Mapes Road  
Fort Meade, MD 20755-5350  
Cole.Theresa@epa.gov

(410) 305-2907

nathan.ehresman--08/17/2012 03:22:17 PM--Hi Theresa- We can likely provide some imidacloprid (parent) PAI standard but we

From: nathan.ehresman@us.nufarm.com  
To: Theresa Cole/DC/USEPA/US@EPA  
Date: 08/17/2012 03:22 PM  
Subject: Re: imidacloprid metabolites and products

---

Hi Theresa-

We can likely provide some imidacloprid (parent) PAI standard but we don't have any of the metabolites listed nor a source from which to obtain.

Curious why EPA cannot obtain these from the Basic Registrant- Bayer CropScience?

---

Nathan P. Ehresman  
Director, Regulatory Affairs  
Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560  
Phone: 919.379.2515  
Mobile: 919.930.4198  
nathan.ehresman@us.nufarm.com

From: Theresa Cole <Cole.Theresa@epamail.epa.gov>  
To: nathan.ehresman@us.nufarm.com,  
Date: 08/15/2012 11:51 AM  
Subject: imidacloprid metabolites and products

---

Hi Nathan,  
Attached is a request for imidacloprid metabolites and products. Please feel free to contact me if you have any questions.

Kind regards,  
Terry

(See attached file: nufarms 8 15 2012.doc)

---

TERRY

(Theresa M. Cole)  
Environmental Protection Specialist  
US EPA National Pesticide Standard Repository  
Environmental Protection Agency  
701 Mapes Road  
Fort Meade, MD 20755-5350  
(410) 305-2907

[attachment "nufarms 8 15 2012.doc" deleted by Nathan Ehresman/US/Nufarm]

\*\*\*\*\*

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Nufarm Americas Inc. and its affiliated companies.

Fax: +1 630 455 2001.

\*\*\*\*\*

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Fax: +1 630 455 2001.



Re: imidacloprid metabolites and products  
 nathan.ehresman  
 to:  
 Theresa Cole  
 08/17/2012 03:22 PM  
 Hide Details  
 From: nathan.ehresman@us.nufarm.com  
 To: Theresa Cole/DC/USEPA/US@EPA,  
 History: This message has been replied to.

Hi Theresa-

We can likely provide some imidacloprid (parent) PAI standard but we don't have any of the metabolites listed nor a source from which to obtain.

Curious why EPA cannot obtain these from the Basic Registrant- Bayer CropScience?

---

Nathan P. Ehresman  
 Director, Regulatory Affairs  
 Nufarm Americas Inc.  
 4020 Aerial Center Parkway, Suite 101  
 Morrisville, NC 27560  
 Phone: 919.379.2515  
 Mobile: 919.930.4198  
 nathan.ehresman@us.nufarm.com

From: Theresa Cole <Cole.Theresa@epamail.epa.gov>  
 To: nathan.ehresman@us.nufarm.com,  
 Date: 08/15/2012 11:51 AM  
 Subject: imidacloprid metabolites and products

---

Hi Nathan,  
 Attached is a request for imidacloprid metabolites and products. Please feel free to contact me if you have any questions.

Kind regards,  
 Terry  
 (See attached file: nufarms 8 15 2012.doc)

---

TERRY  
 (Theresa M. Cole)  
 Environmental Protection Specialist  
 US EPA National Pesticide Standard Repository  
 Environmental Protection Agency  
 701 Mapes Road  
 Fort Meade, MD 20755-5350  
 (410) 305-2907  
 [attachment "nufarms 8 15 2012.doc" deleted by Nathan Ehresman/US/Nufarm]

\*\*\*\*\*

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Nufarm Americas Inc. and its affiliated companies.  
Fax: +1 630 455 2001.



Nufarm Americas Inc.  
Research & Development Lab  
4020 Aerial Center Parkway  
Suite 101 Morrisville,  
NC 27560

| Experimental Sample Request | ESR # 3938 |
|-----------------------------|------------|
|-----------------------------|------------|

|                       |              |
|-----------------------|--------------|
| Date Requested:       | 5-Oct-12     |
| Requested By:         | Amison Cooke |
| Delivery date needed: | 5-Oct-12     |

|               |          |                   |
|---------------|----------|-------------------|
| Date Shipped: | 5-Oct-12 | (RTP to complete) |
| Shipped by:   | 5-Oct-12 | (RTP to complete) |

Shipping Instructions:

|                 |                                                  |
|-----------------|--------------------------------------------------|
| Company:        | US EPA National Pesticide<br>Standard Repository |
| Attention:      | Theresa M. Cole                                  |
| Street address: | 701 Maple Road<br>Farmingdale, MD 20735-3350     |
| Phone:          | (410) 305-2907                                   |

| Product Name:                         | Product Code (& lot # if known) | Quantity Requested: |
|---------------------------------------|---------------------------------|---------------------|
| Desnitro-imidacloprid                 | lot # SZBC124XV 99.8%           | 25 mg               |
| imidacloprid                          | lot # 24DCX153 198.9%           | 5.2 grams           |
| metolaxyl                             | lot # 1EDS138 98.8%             | 5 grams             |
| 6-chloropyridine-3-carboxylic<br>acid | lot # BCBP5281V 99.0% #PFC      | 5 grams             |

Comments:

|                    |               |                                                   |
|--------------------|---------------|---------------------------------------------------|
| Mode Of Transport: | FedEx 2nd Day | Tracking No. (if available - RTP)<br>799132887750 |
|--------------------|---------------|---------------------------------------------------|

|                       |  |
|-----------------------|--|
| Charge To Account Of: |  |
|-----------------------|--|

Additional Requirements:

MSDS (required)  
Chain of Custody  
Certificate of Analysis







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDE PROGRAMS  
NATIONAL PESTICIDE STANDARD REPOSITORY  
ENVIRONMENTAL SCIENCE CENTER  
701 MAPES ROAD  
FORT MEADE, MARYLAND 20755-5350

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

August 15, 2012

Mr. Nathan P. Ehresman  
Nufarm Americas, Inc.  
4020 Aerial Center Parkway  
Suite 101  
Morrisville, NC 27560

Dear Mr. Ehresman,

The U.S. Environmental Protection Agency needs your assistance to replenish its supply of pesticide analytical reference standards for the EPA National Pesticide Standard Repository. These standards are maintained in the repository for distribution to federal and state laboratories performing FIFRA enforcement, as required by 40 CFR part 158, and OPPTS Test Guidelines 830.1900 and 860.1650.

We currently need to replenish our stock with:

~~imidacloprid, 5 grams~~  
imidacloprid 5 hydroxy, 2 grams  
~~imidacloprid 6 chloronicotinic acid, 2 grams~~  
~~imidacloprid des nitro, 2 grams~~  
imidacloprid hydrochloride des nitro, 2 grams  
imidacloprid olefin des nitro, 2 grams  
imidacloprid olefin, 2 grams  
imidacloprid urea, 2 grams  
imidacloprid 13C d3-, 2 grams

Please send this material as soon as possible to:

Ms. Terry Cole  
EPA Environmental Science Center  
National Pesticide Standard Repository  
701 Mapes Road  
Fort Meade, MD 20755-5350

Filed 4/24/13

10-10-12

Please also include 1) a copy of the MSDS, 2) a copy of the Certificate of Analysis 3) the declared percent purity, and 4) the expiration date. If no expiration date is provided, we will assume a one year expiration date.

Your continued support of the EPA National Pesticide Standard Repository is greatly appreciated. If you have any questions, please contact me by telephone (410-305-2907) or email ([cole.theresa@epa.gov](mailto:cole.theresa@epa.gov)).

Sincerely,

Theresa M. Cole  
US Environmental Protection Agency  
National Pesticide Standard Repository  
Office of Pesticide Programs



**Re: request for analytical standards**  
nathan.ehresman to: Theresa Cole

11/28/2011 10:28 AM

Hi Theresa-

We have the following standards in house (in our laboratory):

~~imidacloprid~~ Recd 11-30-11  
oxytetracycline dihydrate  
~~propiconazole~~ 11-30-11

We'll send these now.

Amitrole- we have some in France and I've requested 5 grams. Will take about a month for delivery.

We do not have any standard in our US laboratory or elsewhere for imazamethabenz, metsulfuron, or mecoprop (methyl ester).

Nathan P. Ehresman  
Director, Regulatory Affairs  
Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560  
Phone: 919.379.2515  
Mobile: 919.930.4198  
nathan.ehresman@us.nufarm.com

CO

From: Cole.Theresa@epamail.epa.gov  
To: nathan.ehresman@us.nufarm.com  
Date: 11/08/2011 10:49 AM  
Subject: request for analytical standards

Hi Nathan,

Thanks in advance for helping me with this request. Feel free to contact me if you have any questions.

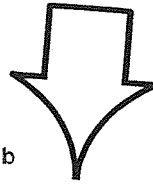
Kind regards,

Terry

(See attached file: nufarms 11 08 2011.doc)



Nufarm Americas Inc.  
Research & Development Lab  
PO BOX 13439  
104 TW Alexander Drive, Bldg 5  
Durham, NC 27709  
919-547-9600



## Experimental Sample Request

ESR # 3713

Date Requested: 29-Nov-11  
Requested By: Anson Cooke  
Delivery date needed: 12-Dec-11

Date Shipped: 30-Nov-11 (RTP to complete)  
Shipped by: Anson Cooke (RTP to complete)

### Shipping Instructions:

EPA Environmental Science  
Center, National Pesticide  
Company: Standard Repository  
Attention: Terry Cole  
Street address: 701 Mapes Road  
Fort Meade, MD 20755-5350

Phone: 410-305-2907

### Product Name:

### Product Code (& lot # if known)

### Quantity Requested:

|               |                  |      |
|---------------|------------------|------|
| Imidacloprid  | Lot # 2ADCX153-R | 5G   |
| Propiconazole | Lot # 4ADCX6     | 10 G |

### Comments:

### Tracking No. (if available - RTP)

Mode Of Transport: FedEx Ground

751560215000761

### Charge To Account Of:

### Additional Requirements:

MSDS (required)  
Chain of Custody  
Certificate of Analysis

|                                     |
|-------------------------------------|
| <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            |
| <input checked="" type="checkbox"/> |



Re: request for analytical standards

nathan.ehresman

to:

Theresa Cole

11/11/2011 03:28 PM

Hide Details

From: nathan.ehresman@us.nufarm.com

To: Theresa Cole/DC/USEPA/US@EPA

Theresa-

Just to keep you in the loop- we received your request and are working on gathering the standards.

---

Nathan P. Ehresman  
Director, Regulatory Affairs  
Nufarm Americas Inc.  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560  
Phone: 919.379.2515  
Mobile: 919.930.4198  
nathan.ehresman@us.nufarm.com

From: Cole.Theresa@epamail.epa.gov

To: nathan.ehresman@us.nufarm.com

Date: 11/08/2011 10:49 AM

Subject: request for analytical standards

Hi Nathan,

Thanks in advance for helping me with this request. Feel free to contact me if you have any questions.

Kind regards,

Terry

(See attached file: nufarms 11 08 2011.doc)

~~~~~  
TERRY

(Theresa M. Cole)

Environmental Protection Specialist

US EPA National Pesticide Standard Repository

Environmental Protection Agency

701 Mapes Road

Fort Meade, MD 20755-5350

(410) 305-2907

[attachment "nufarms 11 08 2011.doc" deleted by Nathan Ehresman/US/Nufarm]

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Nufarm Americas Inc. and its affiliated companies.

Fax: +1 630 455 2001.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF PESTICIDE PROGRAMS
NATIONAL PESTICIDE STANDARD REPOSITORY
ENVIRONMENTAL SCIENCE CENTER
701 MAPES ROAD
FORT MEADE, MARYLAND 20755-5350

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

November 8, 2011

Mr. Nathan P. Ehresman
Nufarm Americas, Inc.
4020 Aerial Center Parkway
Suite 101
Morrisville, NC 27560

Dear Mr. Ehresman,

The U.S. Environmental Protection Agency needs your assistance to replenish its supply of pesticide analytical reference standards for the EPA National Pesticide Standard Repository. These standards are maintained in the repository for distribution to federal and state laboratories performing FIFRA enforcement, as required by 40 CFR part 158, and OPPTS Test Guidelines 830.1900 and 860.1650.

We currently need to replenish our stock with:

amitrole, 5 grams
imazamethabenz, 5 grams
imidacloprid, 5 grams
metsulfuron, 5 grams
oxytetracycline dehydrate, 5 grams
propiconazole, 5 grams
mecoprop, methyl ester, 5 grams

Please send this material as soon as possible to:

Ms. Terry Cole
EPA Environmental Science Center
National Pesticide Standard Repository
701 Mapes Road
Fort Meade, MD 20755-5350

Rec'd 11-5-11
will be coming from France end of Dec

*Company has
no standard?*

*11-18-11 message
Anson Cook -
has calcium salt of
complete - 919-379-
2523 call offer
Th. 8/11/11*



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF PESTICIDE PROGRAMS
NATIONAL PESTICIDE STANDARD REPOSITORY
ENVIRONMENTAL SCIENCE CENTER
701 MAPES ROAD
FORT MEADE, MARYLAND 20755-5350

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

August 8, 2011

Mr. Bill Malberg
Research & Development Manager
Nufarm Americas, Inc.
104 T.W. Alexander Drive
PO Box 13439
RTP, NC 27709

Dear Bill Malberg,

The U.S. Environmental Protection Agency needs your assistance to replenish its supply of pesticide analytical reference standards for the EPA National Pesticide Standard Repository. These standards are maintained in the repository for distribution to federal and state laboratories performing FIFRA enforcement, as required by 40 CFR part 158, and OPPTS Test Guidelines 830.1900 and 860.1650.

We currently need to replenish our stock with:

amitrole, 5 grams
imazamethabenz, 5 grams
imidacloprid, 5 grams
metsulfuron, 5 grams
oxytetracycline dehydrate, 5 grams
propiconazole, 5 grams

A large, handwritten signature in black ink, appearing to read "R. Repen", is written diagonally across the bottom right of the page.

Please send this material as soon as possible to:

Ms. Terry Cole
EPA Environmental Science Center
National Pesticide Standard Repository
701 Mapes Road
Fort Meade, MD 20755-5350

Please also include 1) a copy of the MSDS, 2) the declared percent purity, 3) a copy of the Certificate of Analysis and 4) the expiration date. If no expiration date is provided, we will assume a one year expiration date.

Your continued support of the EPA National Pesticide Standard Repository is greatly appreciated. If you have any questions, please contact me by telephone (410-305-2907) or email (cole.theresa@epa.gov).

Sincerely,

Theresa M. Cole
US Environmental Protection Agency
National Pesticide Standard Repository
Office of Pesticide Programs